

## ACTUATOR USING FLUID CYLINDER, METHOD OF CONTROLLING THE ACTUATOR, AND CHOKE VALVE DEVICES

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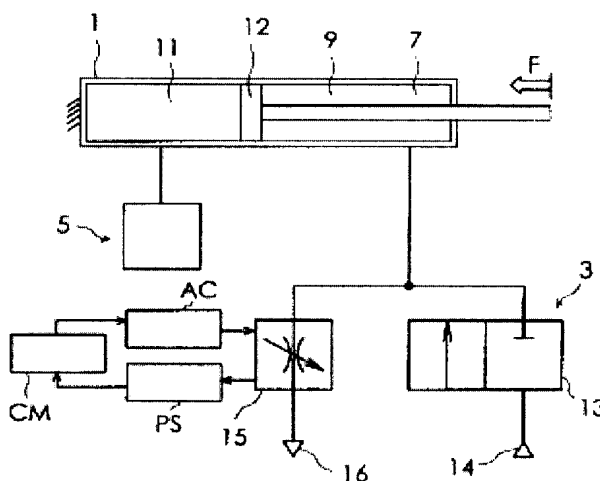
**Cited documents:**

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JP3204402  
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### Abstract of **WO2005045257**

An actuator using a fluid cylinder capable of providing rigidity to the fluid cylinder such as an air cylinder by a simple structure, a method of controlling the actuator, and choke valve device. The actuator comprises the fluid cylinder (1), the first choke valve device (3), and a second choke valve device (5). The fluid cylinder (1) comprises a cylinder chamber (7) and a piston (12) slidably disposed in the cylinder chamber (7) so as to partition the cylinder chamber (7) into a first chamber (9) and a second chamber (11). The first choke valve device (3) is disposed between a fluid pressure source and the first chamber (9) and the second choke valve device (5) is disposed between the fluid pressure source and the second chamber (11). The choke valves (3) and (5) comprise discharge valve mechanisms capable of varying the openings of the valves thereof.



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